```
while excitations to mixed valence-Rydberg configurations are
     characterized by a moderate blue spectral shift. New information was
     obtained concerning the energetics of mol. ionization process in a dense
            The high n = 2-5 Rydberg states of MeI exhibit a large red shift
     at moderate (.rho. = 0-0.5 g cm-3) Ar densities. The ionization potential
     Eg and the effective Rydberg const. G for MeI in Ar decreased from G =
     13.6 eV and Eg = 9.55 eV at .rho. = 9.08 eV and G .apprx.7.15 eV at .rho.
     = 0.5 g cm-3. Exptl. evidence was obtained for the identification of n =
     2 mol. Wannier impurity states of MEI and of HCHO in liq. Ar. These
     spectroscopic data result in Eg .apprx.8.6 eV for MeI in liq. Ar and Eg
     .apprx.10.2 eV for HCHO in liq. Ar.
     extravalence excitation perturbation argon
     Ultraviolet and visible spectra
        (extravalence excitation perturbation by helium-group gases in)
     Helium-group gases, properties
     RL: PRP (Properties)
        (in mol. extravalence excitation perturbation)
     Energy level excitation
        (perturbation of, by rare-gas fluids)
                          ***74-88-4*** , properties
     50-00-0, properties
                                                         75-15-0, properties
     RL: PRP (Properties)
        (argon perturbation of extravalence excitation in)
     7440-37-1, properties
     RL: PRP (Properties)
        (mol. extravalence excitation perturbation by liq.)
     ANSWER 50 OF 50 CAPLUS COPYRIGHT 2005 ACS on STN
     1972:133818 CAPLUS
     76:133818
     Entered STN: 12 May 1984
     Relative and absolute Raman scattering cross sections in liquids
     Colles, M. J.; Griffiths, J. E.
     Bell Teleph. Lab., Inc., Murray Hill, NJ, USA
     Journal of Chemical Physics (1972), 56(7), 3384-91
     CODEN: JCPSA6; ISSN: 0021-9606
     Journal
     English
     73 (Spectra by Absorption, Emission, Reflection, or Magnetic Resonance,
     and Other Optical Properties)
     Peak and total differential Raman scattering cross sections for several
     liqs., MeOH, EtOH, iso-PrOH, Me2CO, MeCCl3, MeI, cyclohexane, and PhBr,
     were detd. relative to the .nu.2(alg) = 944 cm-1 line of C6D6 as an
     internal std. By using an abs. value for the peak differential cross
     section of this line and measured values of the radiant intensities and
     depolarization ratios of selected Raman lines in the above ligs., abs.
     values were obtained for peak differential scattering cross section and
     total differential scattering cross section. Results are expected to be
     accurate to .+-. 10 unless specified otherwise. Measurements were made by
             ***medium*** power continuous wave Ar ion ***laser***
     operating at 4880 .ANG., a double monochromator and a photomultiplier
     (S-20 and S-11) detector.
     Raman cross section liq
     Raman spectra
        (of org. ligs.)
     64-17-5, properties
                          67-56-1, properties 67-63-0, properties
                                                                       67-64-1,
                           ***74-88-4*** 108-86-1 110-82-7, properties
     properties 71-55-6
     RL: PRP (Properties)
        (Raman spectrum of)
=> d his
     (FILE 'HOME' ENTERED AT 14:04:12 ON 17 MAY 2005)
    FILE 'CAPLUS' ENTERED AT 14:04:18 ON 17 MAY 2005
             1 S EP 1149873/PN
     FILE 'REGISTRY' ENTERED AT 14:04:40 ON 17 MAY 2005
     FILE 'CAPLUS' ENTERED AT 14:04:50 ON 17 MAY 2005
               TRA L1 1- RN :
                                    18 TERMS
```

ST

IT

IT

IT

IT

IT

Ļ7

AN DN

ED

TIΑU

CS SO

DT

LΑ CC

AR

ST

ΙT

IT

L1

L2

FILE 'REGISTRY' ENTERED AT 14:04:51 ON 17 MAY 2005 L3 18 SEA L2

FILE 'CAPLUS' ENTERED AT 14:05:05 ON 17 MAY 2005

L4 34880 S L3

1560 S (OPTICAL OR LASER OR INFORMATION) AND L4

L6 41978 S (OPTICAL OR LASER OR INFORMATION) (5A) (MED? OR DISK OR DISC)

L7 50 S L6 AND L4

=> log y

L5

COST IN U.S. DOLLARS
SINCE FILE TOTAL
ENTRY SESSION
FULL ESTIMATED COST
167.31
181.67

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS) SINCE FILE TOTAL ENTRY SESSION

CA SUBSCRIBER PRICE ENTRY SESSION
-36.50 -36.50

STN INTERNATIONAL LOGOFF AT 14:07:23 ON 17 MAY 2005